

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PM274 AT

DESCRIPTION

Polypropylene copolymer, 20% mineral fillers reinforced and high melt flow rate.

ISPLEN® PM274 AT shows a good compromise between impact strength and stiffness, keeping a low warpage and shrinkage behaviour.

The product is high heat stabilised.

APPLICATIONS

- Automotive: Under the bonnet parts subjected to high thermal stress. Interior trims.
- Technical pieces, in general.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
MFI (230°C, 2.16Kg)	13,5	g/10min	ISO 1133
Density	1,06	g/cm ³	ISO 1183
Mechanical properties			
Flexural Modulus of Elasticity	2000	MPa	ISO 178
Tensile Modulus of Elasticity	1850	MPa	ISO 527-2
Tensile Strength at Break	19,5	MPa	ISO 527-2
Elongation at Break	22	%	ISO 527-2
Tensile Strength at Yield	25	MPa	ISO 527-2
Elongation at Yield	4,5	%	ISO 527-2
Charpy Impact Strength (23 °C notched / unnotched)	4 / 57	KJ/m ²	ISO 179
Charpy Impact Strength (0 °C notched / unnotched)	3 / 35	KJ/m ²	ISO 179
Charpy Impact Strength (-20°C notched / unnotched)	2 / 25	KJ/m ²	ISO 179
Charpy Impact Strength (-40°C notched / unnotched)	2 / 21	KJ/m ²	ISO 179
Thermal properties			
Vicat (10N, 120°/h)	147	°C	ISO 306
Vicat (50N, 120°/h)	75	°C	ISO 306
HDT (T _{ff} 0,45 MPa)	74	°C	ISO 75
HDT (T _{ff} 1,8 MPa)	53	°C	ISO 75
Others			
Shrinkage, 150x100x3mm	0,87 – 0,88	%	ISO 2577
Shore D Hardness, 15s	65	°Shore	ISO 868

STORAGE

El ISPLEN® PM 274 AT should be stored in dry atmosphere paved, drained and not flooded area at temperatures under 60 °C and protected from UV radiation. Storage under improper conditions could trigger off degradation processes, negatively influencing processability and properties of the transformed product.

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This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

Technical Service and Development:
Repsol Technology Centre
Ctra. de Extremadura A5, Km 18
28931 Móstoles, Madrid
Tel. +34 91 753 86 00
atd_poliiolefinas@repsol.com

Headquarters:
Méndez Álvaro, 44
28045 Madrid
Spain
www.chemicals.repsol.com

Customer Care:
sacrq@repsol.com